



Payload 3 Daily Flight Report

Date: 2024-06-05

Flight Campaign ID: P3C1

Airport, FBO ID, City: Topeka Regional Airport (KFOE) - Topeka, KS

Aircraft: N821AR

Domain: 06 (Prairie Peninsula)

Sites Flown: KONZ_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)

Days left in Domain: 13

Report Author: Mitch

Lidar Operators: Mitch

Spectrometer Operators: Mike

Pilots: Justin, Jacob

Flight Hours: 03:47, 01:52

Hours until maintenance: 47.47

GPS Instruments: 07 - FBO_KFOE, U-KSU1

Summary

Severe clear day in Kansas to kick off D06 collections. The entirety of the KONZ-KONA flight box was collected in green conditions over two flights.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

Green:	Yellow:	Red:
0-10%	11-50%	>50%

Solar Angle Less Than 40 degrees

Line #

D06|KONZ_KONA

Line #	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																					

Line #	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover															

Total number of lines flown: 35

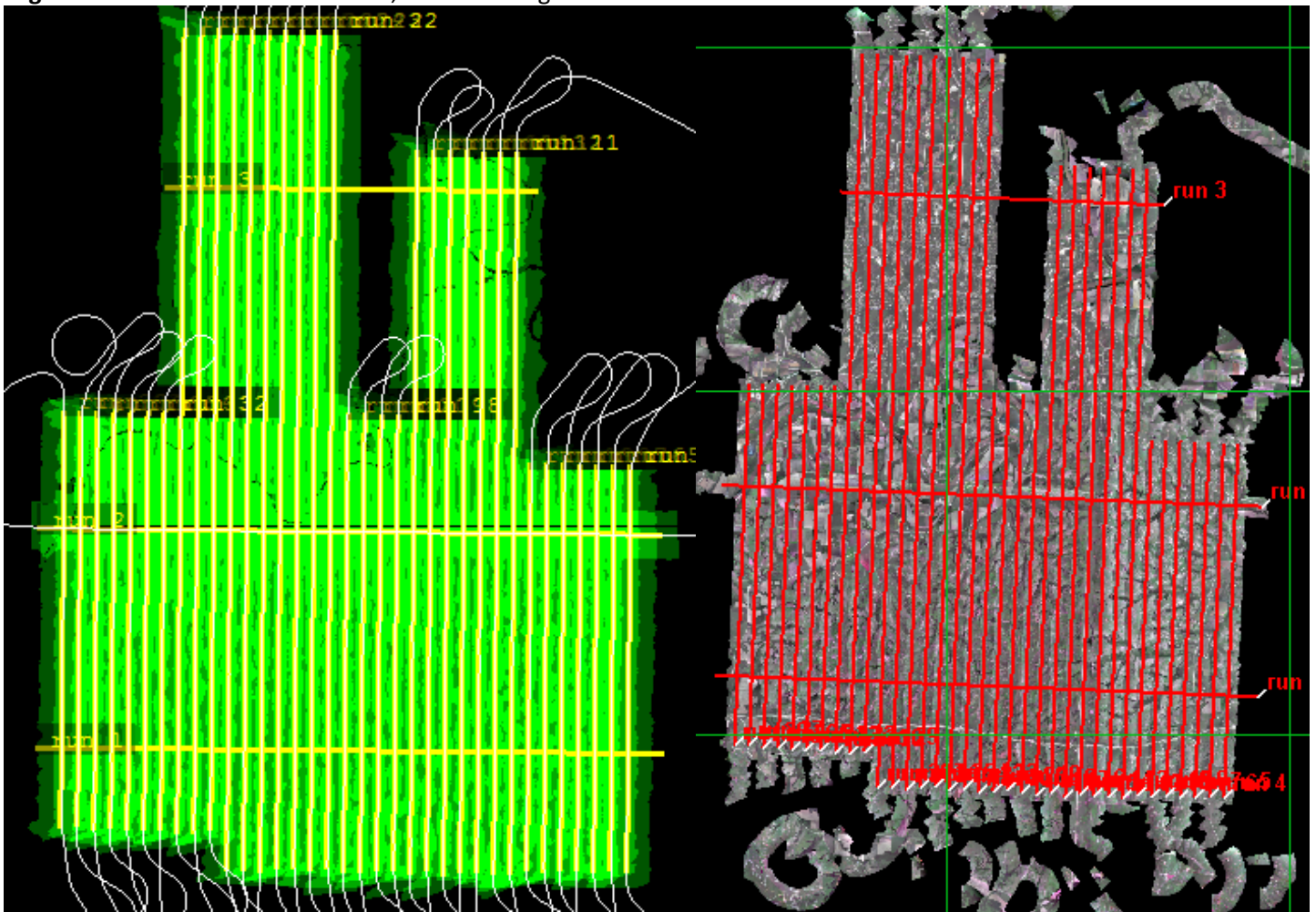
Pictures



Above and Below: Looking west and east from the middle of the KONZ-KONA flight box on a severe clear collect day.



Flight Screenshots: Lidar on the left, NIS on the right



Cumulative Domain Coverage

D06 | KONZ_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)

4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38						

Flown: 100% (35/35)

Green: 100% (35/35)

Yellow: 0% (0/35)

Red: 0% (0/35)

D06 | MCDI (McDiffett Creek)

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Flown: 0% (0/19)

Green: 0% (0/19)

Yellow: 0% (0/19)

Red: 0% (0/19)

D06 | UKFS (University of Kansas Field Station)

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
22	23	24	25	26																

Flown: 0% (0/25)

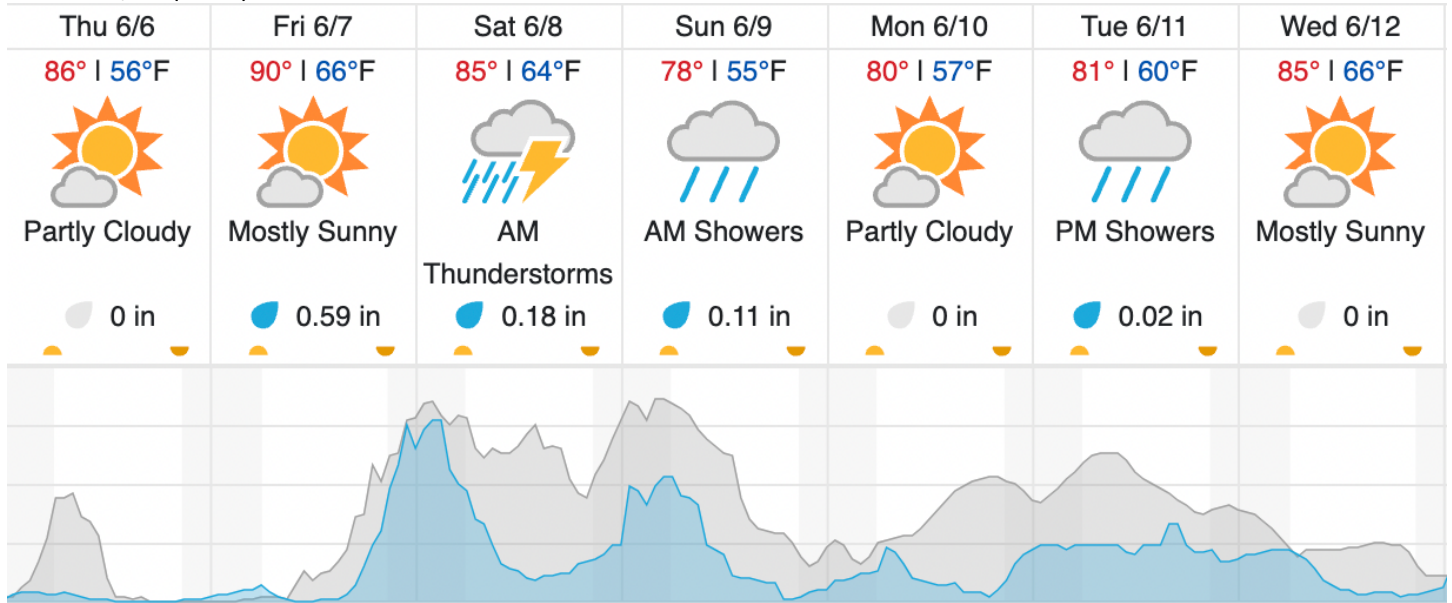
Green: 0% (0/25)

Yellow: 0% (0/25)

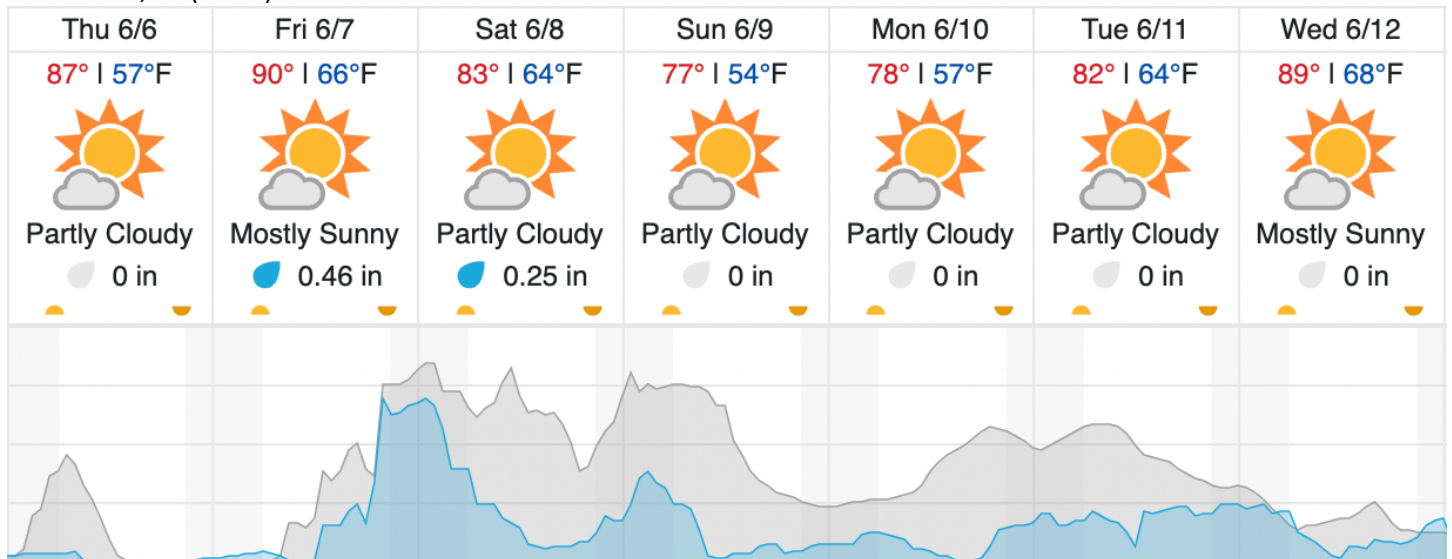
Red: 0% (0/25)

Weather Forecast

Lawrence, KS (UKFS)



Manhattan, KS (MCDI)



source: wunderground.com

Flight Collection Plan for June 6 2024

Flyority 1

Collection Area: University of Kansas Field Station (UKFS)

Flight Plan Name: D06_UKFS_R1_P1_v3_Q780

On-station Time: 1440 UTC / 0940 L

Flyority 2

Collection Area: McDiffett Creek (MCDI)

Flight Plan Name: D06_MCDI_C1_P2_v3_Q780

On-station Time: 1450 UTC / 0950 L

Flight Crew: Mike (Lidar), Mitch (NIS)